

ABSTRACT OF THE DISCLOSURE

An image reading device includes a photoelectric device provided with an empty transfer part; an A-D converter performing A-D conversion on an output signal for each pixel of the photoelectric device; a reference voltage varying part varying a reference voltage of the A-D converter; a detecting part detecting a black correction reference data from output for each pixel of the photoelectric device; a black shading correcting part subtracting the black correction reference data from digital image data obtained from the output signal for each pixel of the photoelectric device when an image is read by the A-D converter having the reference voltage set therein; and a correcting part correcting the black correction reference data by a ratio of an output level of the empty transfer part obtained through the A-D converter when the black correction reference data is detected and an output level of the empty transfer part obtained through the A-D converter when the image is read.

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